US Army Corps of Engineers®

R&D Program: TOWNS

Work Unit: Urban Watershed Technology Resource Network

Needs & Problems Addressed:

- Urban watersheds are made up of complex and interrelated systems, have many diverse stakeholders, and involve a number of social, political, economical and environmental factors
- The various knowledge bases, technologies, expertise and R&D capabilities that exist must be well managed to provide comprehensive information to the various stakeholders

Objectives:

- Develop a Web site application that serves as a resource for urban watershed *community of interest* and *community of practice* members for managing technology resources related to urban watershed management issues, and for collaborating on these issues
- Carry out product life-cycle planning for TOWNS

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Work Unit Funding Profile:

FY03	FY04	FY05	Total
$170k	$175k	$130k	$375k

Comments on funding plan:

- Leverages efforts underway in RSM and SMART

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Business Program/Missions Areas Supported:

- Inland Navigation __ %
- Coastal Navigation __ %
- Coastal Storm Damage Reduction **30** %
- Inland Flood Control/Damage Reduction **30** %
- Environmental Protection & Quality **10** %
- Multi-Purpose (Hydropower, Rec & Water Supply) __ %
- Emergency Management **30** %
- Regulatory __ %
- Support for Others __ %

(Must to add to 100%) Total: 100 %

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CW Strategic Goals Check List: (check if applies)

- Provide sustainable water resources development & mgmt ___
- Restore past environment degradation ___
- Provide project services of high quality _X_
- Reduce losses from natural & manmade hazards ___
- Supports being a world class technical leader _X_
- Addresses strategic or system needs in a framework or integrated approach by developing:
  - Methods or decision support tools ___
  - Technology to improve life cycle productivity _X_
  - Technology to monitor systems, provide feedback and develop operating guidance _X_

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Which “short term” field needs does this support:

- Improves functional performance by transferring information about new R&D products as quickly and effectively as possible
- Ensures availability of critical technology
- Expedites project level decision-making through knowledge transfer

Field Review Group Relative Ranking:

- TOWNS FRG planned for 21-22 August 2002

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Listening Sessions Check List: (check if applies)

- Improves data sharing/exchange with the public in these areas:
  - Provides one stop shop for maps & data for basin wide planning ___
  - Provides data to make informed decisions _X_
  - Provides a system for basin wide planning ___
  - Provides information about what is happening at Corps facilities _X_ (up to date web sites)
- Tech Transfer plan to include educating the public _X_
- Coordinate research, models, analysis with regulatory agencies to insure results will be accepted _X_
- Develop R&D products:
  - For watershed management plans, not just at the project level _X_
  - To include aesthetics as components of all projects ___
- Create better models for ground & surface water ___

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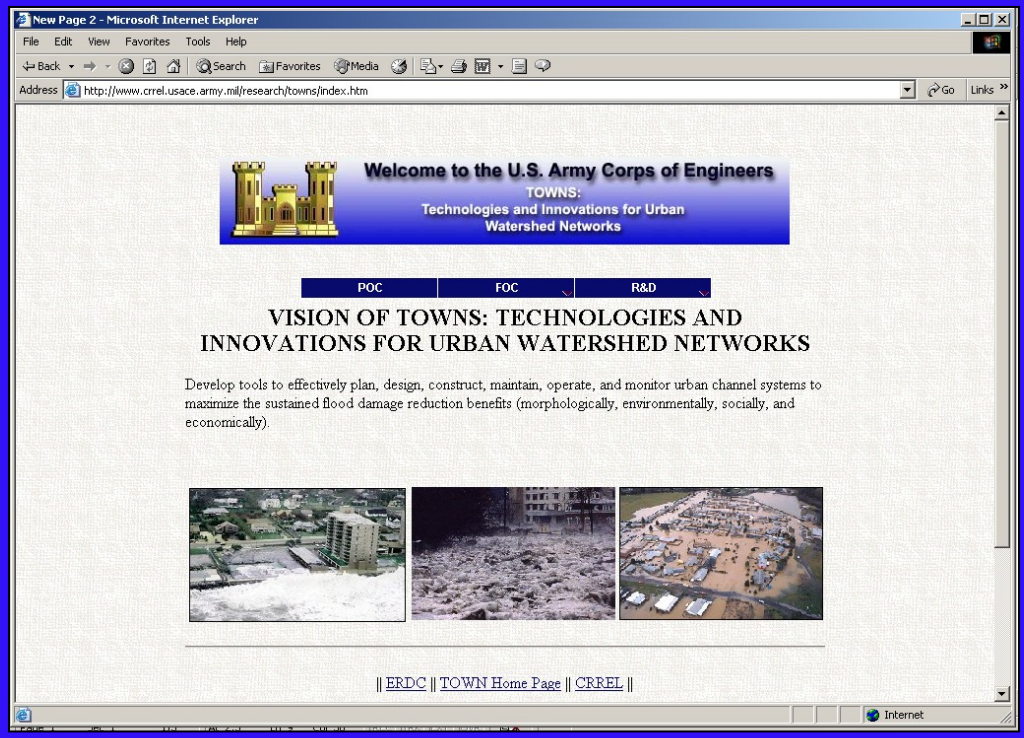
Products:

- Fully functional Web application having many Web portal features
- Program source code and database definitions associated with any custom-developed code for Web applications and Web services
- Documentation related to design, development, and content management of Web services
- Documentation related to the TOWNS informatics roadmap and investment strategy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Address http://www.crrel.usace.army.mil/research/towns/index.htm
Welcome to the U.S. Army Corps of Engineers
TOWNS:
Technologies and Innovations for Urban Watershed Networks
POC
FOC
R&D
VISION OF TOWNS: TECHNOLOGIES AND INNOVATIONS FOR URBAN WATERSHED NETWORKS
Develop tools to effectively plan, design, construct, maintain, operate, and monitor urban channel systems to maximize the sustained flood damage reduction benefits (morphologically, environmentally, socially, and economically).
|| ERDC || TOWN Home Page || CRREL ||
Internet

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Benefits

- Direct:
  - Immediate benefit to Districts through efficient transfer of new TOWNS R&D results and products
- Indirect:
  - Contributes to knowledge base
  - Increases system productivity by quickly transferring new information
  - Provides source for software, publications, training
  - Introduces R&D products to Corps, public agencies, and other potential users
  - Receives feedback on TOWNS R&D product usefulness

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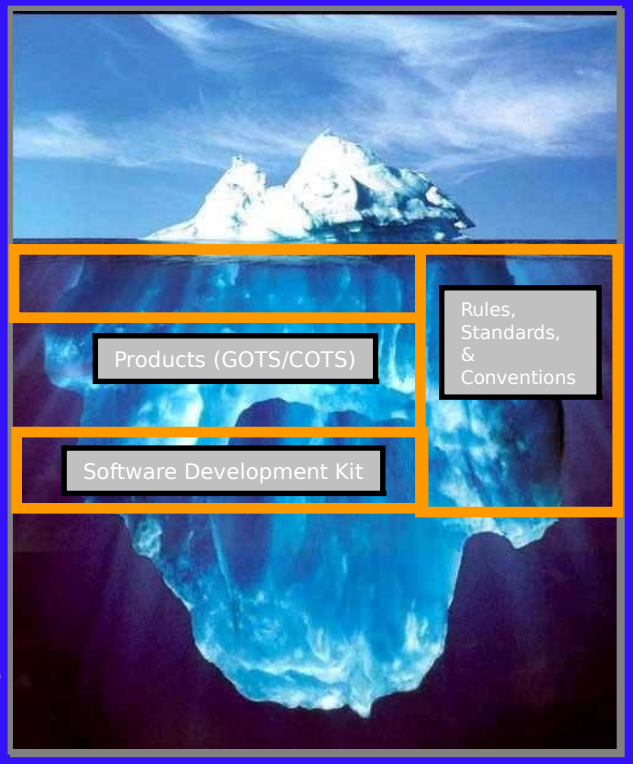
Technology Transfer Plan:

- TOWNS web site
- TOWNS product inventory and life-cycle planning
- TOWNS databases, software, tools, chat room
- TOWNS publications, including EM, ETL, IR, TN, Information Bulletins
- Links to other agencies
- Information dissemination through conferences, journals, workshops, training



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Why should the Corps fund this R&D, instead of private industry and/or others:

- Technology transfer of Corps R&D is important function, but not one that private industry is likely to fund

What is Impact if not started:

- Inefficient transfer of Corps R&D related to urban and coastal flooding that could be used to enhance public safety and reduce flood damage reduction costs and